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# STUDENT REPORT

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# DETAILS

## Name

**B HARSHITHA** 

# **Roll Number**

3BR23CA014

**Title** 

014

PEAK ELEMENT FINDER

Description: You are given an N- dimensional array arr[]. A peak element in the array is defined as an element whose value is greater than or equal to its neighboring elements (if they exist). Your task is to find the index of any peak element in the given array

823

Note: use 0-based indexing

# Input:

An integer representing the number of elements in the array. N space-separated integers, denoting the elements of the array.

38R23CA01A 3R2A 36R23CA01A 38R23CA01A 3R2A 36R23CA01A 3R2A 36R2A 36

N space-separated integers ,denoting the elements of the array arr[]

# **Sample Input:**

5

1 3 20 4 1

# **Sample Output:**

2

# 3BR23CA01A3BR23CA01A3BR23CA01 38R23CA01A3BR23CA

```
3BR23CA014-Peak Element Finder
  def find_peak_element(arr):
    n = len(arr)
    if n == 1:
      return 0
    if arr[0] > arr[1]:
      return 0
    if arr[n - 1] > arr[n - 2]:
      return n - 1
    for i in range(1, n - 1):
      if arr[i] > arr[i - 1] and arr[i] > arr[i + 1]:
        return i
    return -1
  n = int(input())
  arr = list(map(int, input().split()))
  index = find_peak_element(arr)
  if index != -1:
    print(index)
  else:
    print("No peak element found.")
5 / 5 Test Cases Passed | 100 %
```

https://practice.reinprep.com/student/get-report/ea4d13f0-7d6d-11ef-ae9a-0e411ed3c76b